

SEMESTER LEARNING PLAN (RPS) STUDY PROGRAM OF S1 BUILDING ENGINEERING EDUCATION-DEPARTMENT OF CIVIL ENGINEERING FACULTY OF ENGINEERING - STATE UNIVERSITY OF PADANG

COURSE NAME		CODE		MK family	SK	S	SEM	Versi
								on
SCIENTIFIC WRITING A SCIENTIFIC PAPERS AN	ND SEMINAR PROCEDURES D SEMINARS	SIP1.61.6202	Study Pro	1	1	6	1	
					TTD Responsible Lecturer			
Responsible Lecturer			Dr. Rijal Abdı	Dr. Rijal Abdullah, MT.				
INFORMATION		Dean of the Faculty	of Engineering	Head of Civil Engineering Department			ling Engin udy Progr	-
Learning Outcomes of Graduates(Program Learning Outcomes = PLO)	form the basis for the respective fields(<i>Know</i> 1.1. Able to show a go field of building er 1.2. Have a high under of building engined 1.3. Have a high under	vience knowledge (i field of Building E ledge and Understan ood understanding a agineering. standing and can im- pering.	985031004 mathematics, na Engineering Voo <i>nding)</i> . nd implement b plement basic co mplement the b	Faisal Ashar, ST., MT., Ph. D. NIP. 197501032003121001 Atural sciences) and other mul eational Education in carrying pasic mathematical concepts to poncepts of physics and chemist asic principles of basic engin	NIP. 1 tidisciplin out prof o solve va	9600103 hary dis dessional arious p al scienc	work in roblems	which n their in the ne field

	Engineering
 2.4.Able to communicate Engineering Analysis, Investigation and Assessment materials to students / training. 3. Have a reliable ability in the design, implementation and supervision of building engineering works (<i>Assessment</i>). 	y aspects.
3.1. Able to realize work drawings in collaboration with various related parties.	y aspects.
3.2. Able to manage building engineering work by paying attention to environmental, social, health and safet3.3. Able to supervise the implementation of building engineering work.	-
3.4. Able to communicate Engineeering Design materialto learners.	
 4. Have a reliable ability to design, implement and evaluate the learning process in Building Engineering Education (<i>Education design</i>). 4.1. Able to design curriculum and learning process in the field of building engineering. 	; Vocational
4.2. Able to implement, control, evaluate and improve the quality of the learning process	
4.3. Able to develop effective, efficient, and attractive learning media.	
4.4. Able to conduct research in the field of education.	
 5. Having the ability to adapt and innovate to the development of science and technology and implement it into goals and professional work by considering the non-technical risks that may occur (<i>Engineering practice</i>). 5.1. Able to innovate and develop technology in the field of building engineering by considering social, ec environmental aspects. 	
5.2. Able to analyze environmental conditions in the planning, implementation and supervision of buildings.	
 5.2. Able to analyze environmental conditions in the planning, implementation and supervision of buildings. 5.3. Implement information technology and computers into the planning, implementation, and supervision public buildings. 	processes of
6. Having social and managerial competence, working together, communicating effectively, having an enti- character, having an environmental perspective and being aware of the importance of lifelong learning (<i>Trans</i> <i>soft skills</i>).	sferable and
6.1. Able to work creatively, innovatively, collaboratively, be careful, responsible, responsive to environment	tal changes.

	 6.2. Have curiosity, think critically, have an open mind, and are objective, have a national sphave an environmental perspective. 6.3. Able to communicate effectively and work together in a team work. 	irit, social sensitivity and
Subject Learning	Subject Learning Outcomes (CPMK)	
Outcomes (Course Outcome =	СРМК	CPL
co)	1. Understand the basic concepts of the scientific method(in the context of Educational Research), which includes: Definition of Scientific Methods, Essence of Scientific Work, Types and Research Procedures, Preparation of Writing Scientific Papers.	4.4
	2. Good mastery of scientific paper writing techniques from the linguistic aspect, which includes: How to Write Effective Sentences, Quotations and References, Bibliography, Summaries (Abstracts), Presenting Images, Tables, Graphics, or Schemes in a Scientific Work(in the context of Educational Research).	4.4
	3. Make a thesis proposal and broadcast material for the seminar(creative, innovative, collaborative, careful, responsible, responsive to environmental changes, curious, critical thinking, open-minded, and objective. Able to communicate effectively and work together in a team work)	6.1, 6.2, 6.3
	4. Conduct seminars well and clearly(creative, innovative, collaborative, careful, responsible, responsive to environmental changes, curious, critical thinking, open-minded, and objective. Able to communicate effectively and work together in a team work)	6.1, 6.2, 6.3
Short course	The study materials in this Scientific Paper & Seminar Writing Lecture include: Introduction, Scient	tific Methods, Types and
descriptions	Research Procedures, The Nature of Scientific Work, Preparation for Writing Scientific Papers, Research Reports, Writing Effective Sentences, Quotations and References, Bibliography, Writ Presenting Images, Tables, Graphs, or Schemes.	0
References	Main (RU):	
	 Akhadiah, Sabarti, Maidar G. Arsjad, & Sakura H Ridwan. 1991. Development of Indonesian Erlangga. American Psychologycal Association. "Electronic References." APA Style. 2003. APA Online www.apastyle.org/elecref.html> APA (American Psychological Association) Citation Style Guide. 19 Sept. 2001. Bucknell Un <<u>http://www.isr.bucknell.edu/research/apa.pdf</u>> 	e. 23 January 2004. <http:< td=""></http:<>

	Department.	ad Fakry. 2004. Guidelines for Writing Scientific Papers. Bandung: UPI National Education 988. Guidelines for the Compilation of Scientific Papers: Papers-Thesis-Dissertation. Bandung: Sinar Power Point).					
	Support (RP)						
	-						
Learning Media	Software:	Hardware:					
_		Computers, LCD projectors, whiteboards and devices					
Team Teaching	Dr. Rijal Abdullah, MT						
Ū	Risma Apdeni, ST., MT						
Assessment		Exam, Independent Assignments (Classwork) & Group Assignments (Homework).					
Requirements	Nothing						
Subject							

LEARNING MATERIALS

Sunday	Competence to be achieved	Study Materials	Learning Methods and Strategies	Assignments / assignments	Assessment Criteria / Indicators	Reference
(1-2)	CPMK-1-2: [CPL- 4.4]1. Explain the meaning of the scientific method and its characteristics.	Introduction and Understanding of the Scientific Method	The lecture was completed with broadcast material, Q&A, and assignments	Make a lecture summary.Doing Classwork	Accuracy in: a. explain the meaning, and b. to characterize the scientific method	4, 5, and 6
(3)	CPMK-3: [CPL-4.4] State the types of research and explain the research procedures.	Types and Research Procedures	The lecture was completed with broadcast material, Q&A, and assignments	 Make a lecture summary. Doing Classwork 	The accuracy of mentioning the types of research and explaining the procedure for conducting research	4, 5, and 6

Sunday	Competence to be achieved	Study Materials	Learning Methods and Strategies	Assignments / assignments	Assessment Criteria / Indicators	Reference
(4)	CPMK-4: [CPL- 4.4] Understand and explain the definition, purpose and function of scientific work.	The Essence of Scientific Work	The lecture was completed with broadcast material, Q&A, and assignments	 Make a lecture summary. Doing Classwork 	Accuracy in explaining the definition, purpose, and function of scientific papers	4, 5, and 6
(5)	CPMK-5: [CP- 4.4] Understand the various things that must be prepared in writing a scientific paper.	Preparation of Writing Scientific Papers	The lecture was completed with broadcast material, Q&A, and assignments	 Make a lecture summary. Doing Classwork 	Accuracy in mentioning various preparations that must be made in order to write a scientific paper	4, 5, and 6
(6)	CPMK-6: [CP- 4.4] Create an outline and outline of a research report.	Writing Framework and Composition of Research Report Writing	The lecture was completed with broadcast material, Q&A, and assignments	 Make a lecture summary. Doing Classwork 	Accuracy in preparing essay frameworks and preparing research reports	4, 5, and 6
(7-8)	CPMK-7-8: [CP- 4.4] Describe the characteristics of effective sentences in scientific writing.	Effective sentence	The lecture was completed with broadcast material, Q&A, and assignments	 Make a lecture summary. Doing Classwork 	The accuracy in explaining the form and characteristics of sentences is effective for a scientific work	4, 5, and 6
(9)	Midterm exam					
(10)	CPMK-10: [CP- 4.4] Explain the difference between direct and indirect citations in scientific papers and how to write a list of references.	Writing quotes and references (bibliography)	The lecture was completed with broadcast material, Q&A, and assignments	 Make a lecture summary. Doing Classwork 	Accuracy in explaining how to distinguish direct and indirect quotations and writing a list of references (bibliography)	4, 5, and 6, as well other sources
(11)	CPMK-11: [CP-4.4,] Explain how to write an abstract of a scientific work.	Bibliography and Abstract Writing	The lecture was completed with broadcast material, Q&A, and assignments	 Make a lecture summary. Doing Classwork 	The accuracy of mentioning the terms and things that must be present in an abstract.	4, 5, and 6, as well other sources

Sunday	Competence to be achieved	Study Materials	Learning Methods and Strategies	Assignments / assignments	Assessment Criteria / Indicators	Reference
(12)	CPMK-12: [CP-2.1, 2.2, 2.3, 3.3] Explain how to present pictures, schemes, graphs, and tables in a scientific paper.	Presentation of pictures, graphs, schemes and tables	The lecture was completed with broadcast material, Q&A, and assignments	 Make a lecture summary. Doing Classwork 	Accuracy explains the terms and how to place images, graphs, schemes, and tables in a scientific paper.	4, 5, and 6, as well other sources
(13-15)	CPMK-13-15: [CP-4.4] Make a scientific work that meets scientific principles (Thesis Proposal, PKM Proposal, and the like, as well as seminars.	Making scientific papers and seminars	The lecture is equipped with broadcast material, Q&A, and Seminars	 Doing Tasks: Making a thesis proposal 	Accuracy and completeness in writing scientific papers and presentation materials, as well as clarity in seminar presentations.	4, 5, and 6, as well other sources
(16)	Final exams					

Note :1 credit = (50 'TM + 60' BT + 60 'BM) / Week

TM = Face to Face (Lecture)

BT = Structured Learning.

- BM = Independent Study
- PS = Simulation Practicum (160 minutes / week)
- PL = Laboratory Practicum (160 minutes / week)
- T = Theory (aspects of science)
- P = Practice (aspects of work skills)

MSN1.62.4007	Assessment	Weigh		CPL-1			CP	L-2			CP	L-3			CP	L-4			CPL-5			CPL-6	;
		t (%)	1	2	3	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	1	2	3
CPMK-1-2	UTS. 1	5															v				v	v	v
СРМК-З	UTS. 2	5															v				v	v	v
СРМК-4	UTS. 3	5															v				v	v	v
CPMK-5	UTS. 4	5															v				v	v	v
СРМК-6	UTS. 5	5															v				v	v	v
	UTS. 6	10															V				V	V	V
СРМК-7-8	UAS. 1	3															V				V	V	V
CPMK-10	UAS. 2	3															V				V	V	V
CPMK-11	UAS. 3	4															V				V	V	V
CPMK-12	UAS. 4	5															V				V	V	V
CPMK-13-15	Seminar	20															V				V	V	V
Duty		20																					
Presence		10																					
TOTAL		100																					

Correlation between CPMK and CPL and Assessment Methods

Assessment Component

Midterm exam	: 35%
Final exams	: 35%
Duty	: 20%
Presence	: 10%
Total	: 100%

Rating level description

	Excellent	Good	Satisfy	Fail
Description	Be able to describe with	Be able to describe with	Be able to describe but	Not capable describe
	right and complete	right but less complete	unclear and less complete	
Formulations	Able to formulate correctly	Able to formulate correctly	Able to formulate but less	Not able to formulate
	and completely	but incomplete	clear and incomplete	
Calculate	Able to calculate correctly	Able to calculate correctly	Able to count but less clear	Not able to count
	and completely	but not complete	and incomplete	
Analysis	Able to analyze correctly and	Able to analyze correctly but	Able to analyze but less clear	Not able to analyze
	completely	incomplete	and incomplete	

Scoring system

Score	Quality Value	Quality Score	Designation of Quality	Score	Quality Value	Quality Score	Designation of Quality
85 - 100	А	4.0	With compliments	55 - 59	С	2.0	Enough
80 - 84	A-	3.6	Very very good	50 - 54	C-	1.6	Not enough
75 - 79	B +	3.3	Very well	40 - 49	D	1.0	Less
70 - 74	В	3.0	Good	≤ 3 9	Е	0.0	Failed
65 - 69	B-	2.6	Pretty good	-	Т	-	Delayed
60 - 64	C +	2.3	More than enough				



MINISTRY OF EDUCATION AND CULTURE STATE UNIVERSITY OF PADANG MAJORING IN MECHANICAL ENGINEERING

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MIDDLE SEMESTER EXAM PROBLEM

Courses	: Administration of Scientific Papers and Seminars				
Code / SKS	: SIP1.61.6202				
Nature of the Exam	: Closed Book				
Lecturer	: Dr. Rijal Abdullah, MT				
	Risma Apdeni, ST., MT.				
Time	: 100 minutes				
Maximum value weight : point					

No.	Question	Weig
		ht
1	Please explain well your understanding of the scientific method and its characteristics.	5
2	State the types of research in the framework of student final assignments and explain the research procedures.	5
3	State the definition and explain the purpose and function of scientific papers!	5
4	Explain the stages in writing a scientific paper!	5
5	Explain the benefits of an essay framework and / or research report outline!	5
6	Create an outline by selecting one of the following topics:	10
	a. Flood Disaster in Padang	
	b. Panic Facing the Covid Outbreak 19.	
	c. Drug Trap for the Young Generation.	
	Total Score	35

UTS Answer Key

 Scientific method (scientific method): the process of thinking to solve problems in a systematic, empirical, and controlled manner. Characteristics of the Scientific Method:

 a. Systematic
 b. Logical
 c. Empirical
 d. Replicative

- There are 2 forms of scientific work in the framework of student final assignments, namely research and design. Research for undergraduate (Thesis), for Masters (Thesis), and for S3 (Dissertation). While designs can be in the form of project design, business design, and others.
 Procedure: Identify Problems, Formulate Hypotheses, Set Hypothesis Testing Procedures, and Conclude.
- 3. Written works present ideas, descriptions or problem solving systematically, objectively and honestly, using standard language, and are supported by facts, theories, and / or empirical evidence. Destination:
 - a. To convey ideas,
 - b. To fulfill assignments in studies,
 - c. To discuss ideas in a meeting,
 - d. To take part in competitions such as PKM, etc., and
 - e. To disseminate knowledge / research results.
- 4. Preparation stage in writing scientific papers:
 - a. Selection of Topics / Problems
 - b. Topic Limitation & Title Determination
 - c. Creating a Framework of Work
 - d. Data collection
 - e. Organizing / Conceptualizing
 - f. Examination / Editing (editing)
 - g. Typing / Serving
- 5. Benefits of a draft outline:
 - a. Arrange essays scientifically and regularly
 - b. Avoiding the content of the writing deviates from the original goal
 - c. Ensuring that the writing is conceptual, comprehensive and directed
 - d. Facilitates the creation of a rhythm (climax-anticlimax)
 - e. Avoid overlapping topics / subtopics
 - f. Avoid discussing a topic / subtopic twice or more
 - g. Make it easy to find material / material written
 - h. Become a guideline in summarizing essays

Coral Framework....

Seminar Value:



11)

4.

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SEMESTER FINAL EXAM PROBLEMS

Courses Code / SKS Nature of the Exam Lecturer		: Administration of Scientific Papers and Seminars		
		: SIP1.61.6202		
		: Closed Book		
		: Dr. Rijal Abdullah, MT Risma Apdeni, ST., MT.		
Time		: 100 minutes		
Maxi	mum value weight	: : point		
No.	Question		Weight	
1	Explain the mean (CPMK 7-8)	ing of the effective sentence! State the terms of the effective sentence!	3	
2	. ,	erstand about plagiarism? Give examples (CPMK 10)	3	
3	Explain the funct	on of the Bibliography and provide examples of correct writing! (CMK	4	

Explain with what is contained in the Abstract of a scientific paper (CPMK 11)

Explain how to present pictures, schemes, graphs, and tables in a scientific paper (CPMK 5
 12)

5	Seminar	20
	Total Score	35



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COURSE TASKS

Courses	: Administration of Scientific Papers and Seminars			
Code / SKS	: SIP1.61.6202			
Nature of the Exam	: Closed Book			
Lecturer	: Dr. Rijal Abdullah, MT			
	Risma Apdeni, ST., MT.			
Time	: 100 minutes			
Maximum value weight : point				

Group	Question	Max value
1	Writing Scientific Background	1
2	Creating a Framework for the Background of Scientific Work	1
4	Making a Simple Scientific Writing Framework (non-thesis)	2
5	Making Abstaracts a Scientific Work	2
6	Discuss and present on wave energy utilization technology	2
7	Writing a Thesis Proposal for the seminar	12

Total Score

UAS Answer Key

1. An effective sentence is a sentence that has the ability to express the message, idea, or feelings of the author or speaker so that readers or listeners can understand the ideas expressed in the sentence as the ideas intended by the writer or speaker. Requirements:

6 main requirements:

Unity of ideas \rightarrow Clear Subject, predicate, object, and description Parallel \rightarrow Alignment, either passive or active Affirmation / emphasis of words \rightarrow changing positions, using pressure particles (lah, kah, etc.), and repetition, or contradiction. Savings of words \rightarrow avoid excessive repetition of subjects, days, dates, words. Logical language \rightarrow da tone of taste of language Variety \rightarrow not mooton.

3 additional conditions:

Choice of words (diction) \rightarrow right Spelling \rightarrow right Punctuation (punctuation) \rightarrow right

- 2. Plagiarism is plagiarism or recognition of other people's work by someone who makes the work as his creation.
- 3. Bibliography is written to:

Provide information that the statements in the essay are not the results of the writer's own thoughts, but the results of other people's thoughts.

Shows the author's appreciation of the work of others who are included in development and writing

Give the reader the opportunity to find and read the reference that is the source of the quote by himself if the reader wishes to delve further into the quoted statement. Example:

DAFTAR PUSTAKA

- (2002). "Islam, Agama Populer atau Elitis." Kompas. (6 September 2002). Hlm.4 (konsisten penggunaan APA)
- Abdur Rahman As'ari. (2001). "Penggunaan Strategi Pemampatan dalam Pembelajaran Matematika." Jurnal MIPA (Nomor 1 tahun 30). Hlm. 1-14.
- Bastiam. 2007."Reformasi Demokrasi". www.padangekspress.co.id. (diakses 12 April 2013)
- Beer, M., Einstant, R.A., & spector, B. (1990), The Critical Path to Corporate Renewal. Boston: Harvard Bussiness School Press
- Cohen, J. (2000). Statistical Power Analysis for the Behavioral Science. rev.ed. New York: Academic Press.
- Elmore, R.F. (ed). Restructuring School: The Next Generation of Educational Reform. San Francisco: Jossey-Bass.
- Firman. (2001). "Daya Prediksi Nilai Rapor dan STTB terhadap Prestasi Belajar jalur PMDK FPTK UNP." Tesis tidak diterbitkan. PPs-UNP.

4. The writing of the picture, the picture number, and the name of the picture are placed under the picture.

Figure numbers are written using Arabic numerals (1,2, 3 not I, II, III), written in sequence regardless of which chapter the image is presented in (Figure 1, not Figure 1.1). Each image is presented on a non-separate page.

Each table must be presented on the same page, although it must modify the font size. The words "Table", table number, and table name are placed on the table.

If the table is quoted from a source, the reference should be written down in the same way as running notes (author's name, year).

In the UNP guidelines, table titles are treated the same as writing titles. The first letter of each word (except for conjunctions) is capitalized.